

Vaishnavi Srivastava

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SUMMARY

CS graduate specializing in machine learning, with hands-on experience across NLP, supervised learning, and end-to-end Python pipelines. Currently a research fellow at IIT Roorkee working on equivariance-aware deep learning for computer vision, with a track record of building and deploying working software from scratch.

EDUCATION

B.Tech in Computer Science and Engineering	Jul 2021 – May 2025
Deen Dayal Upadhyaya Gorakhpur University	CGPA: 8.41/10
Intermediate (CBSE)	Apr 2019 – Mar 2020
Kendriya Vidyalaya 39 GTC Cantt Varanasi	92.4%
High School (CBSE)	Apr 2018 – Mar 2019
Kendriya Vidyalaya 39 GTC Cantt Varanasi	89.4%

SKILLS

Programming	Python, C, C++, SQL
Libraries	PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib
Data Access	MySQL, SQL query
DevOps & Tools	Git, GitHub, Linux, Jupyter, Google Colab
AI/ML	Supervised Learning, NLP, Sentiment Analysis, Anomaly Detection
Core CS	Data Structures, Algorithms, OOP, DBMS

PROJECTS

- **Twisight (Twitter Sentiment Analyzer)** [GitHub](#)
Designed and built an end-to-end NLP pipeline with a Python backend, exposing predictions via a REST API-style interface. Applied supervised learning achieving 95% accuracy; integrated a GUI frontend consuming the prediction service.
- **Real-Time Hand Tracking Module** [GitHub](#)
Built a modular, object-oriented computer vision pipeline in Python using OpenCV and MediaPipe for low-latency hand detection; implemented 21-point 3D landmark localization, pixel coordinate mapping, and real-time FPS monitoring for downstream gesture recognition workflows.

EXPERIENCE

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| Research Fellow – IIT Roorkee | Jul 2026 – Present |
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- Selected for a research fellowship focused on equivariance-aware deep learning for robust computer vision.
 - Working under faculty supervision toward a research contribution in geometric deep learning.
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| Machine Learning Trainee – Moleculyst | Feb 2026 – Jul 2026 |
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- Reproducing models from GitHub repositories and experimenting with fine-tuning and research papers.
 - Contributing to development of an LLM-based video generation pipeline across design, prototyping, version control, and iterative delivery.

INTERNSHIPS & TRAINING

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| Intern – NIELIT | Aug 2025 – Feb 2026 |
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- Assisted in cybersecurity awareness and ethical hacking training programs.
 - Delivered sessions on cybercrime prevention and phishing detection.
 - Conducted compliance auditing using OpenSCAP on Red Hat Enterprise Linux.
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| AI Intern – Feynn Labs | Feb 2025 – Apr 2025 |
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- Designed an AI-driven automation prototype for small enterprises.
 - Built predictive solution models using Python.
 - Applied ML concepts for intelligent decision workflows.
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| Trainee – Samsung Innovation Campus | May 2024 – Aug 2024 |
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- Completed intensive training in AI/ML fundamentals and hands-on coding modules.

ACHIEVEMENTS

- **Guest Speaker:** Delivered an invited technical webinar on *AI-Driven Cybersecurity* for 40+ students at the Centre of Excellence, MPIT Gorakhpur.
- NPTEL Top 5% in Introduction to IoT (IIT Kharagpur)
- NPTEL Silver Badge in Cloud Computing (IIT Kharagpur)
- NPTEL 82% in Data Analytics with Python (IIT Roorkee)